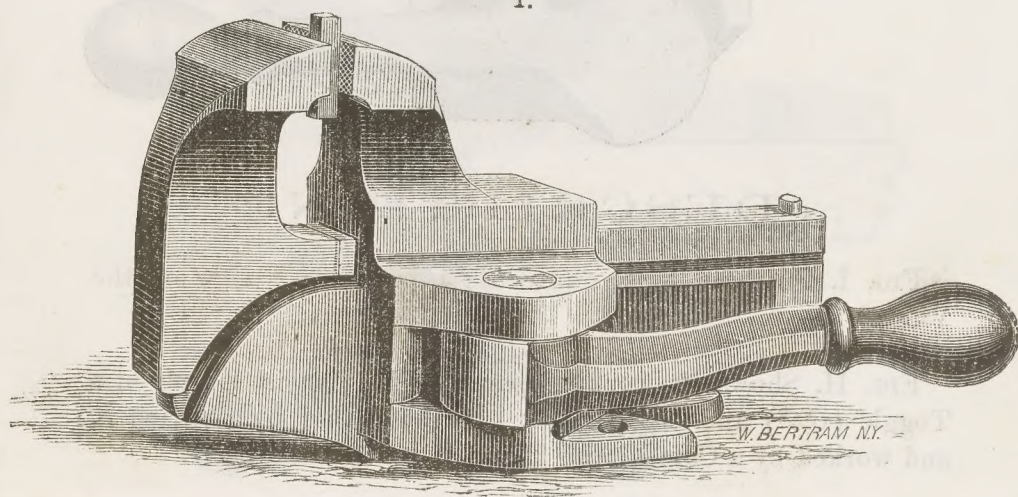


1750
PATENTED { April 5, 1864.
 { October 26, 1869.
 { July 19, 1870.

STEPHENS' PARALLEL VISE.

ADAPTED TO
Locomotive Works, Car Builders, Machinists,
Gun, Sewing Machine and Carriage Manufacturers,
Jewelers, and Artisans Generally.

I.



HIGHEST PREMIUMS
AT FAIRS

OF

AMERICAN AND MARYLAND INSTITUTES.

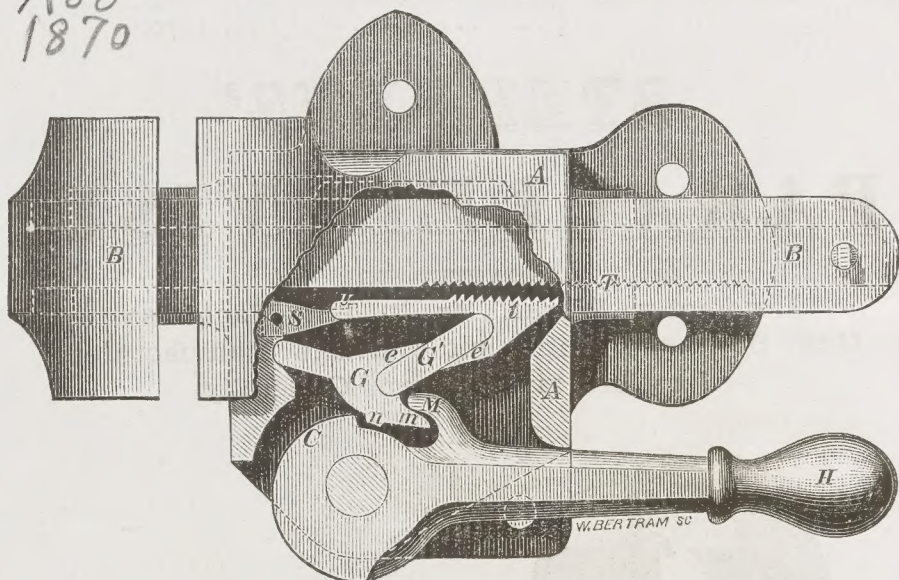
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A. P. & M. STEPHENS & CO.,
MANUFACTURERS,

P. O. Box 701.

91 Liberty Street, New York.

CONS
TJ
1201. V
V5
A66
1870

II.



DESCRIPTION.

FIG. I. On first page, represents a perspective view of the Vice.

FIG. II. Shows its working parts, which consist simply of a Toggle (GG') and toothed Bar t , held together by a Spring S , and worked by a Cam C , and Hook M , on the Handle H .

Pressing the handle hard back, the tooth M , is brought to bear under the tooth m , on the left joint of the toggle, thus disengaging the racks by raising the toothed bar t away from the rack T . The movable jaw $B B$, can now be slid in and out, to its extreme limits, with perfect ease, and an article of any size be held with great power at any point between these limits, simply by placing it between the jaws of the Vice, then pressing the movable jaw $B B$, against it and pulling the handle out. At the first start of the handle outward, the tooth M slips from under the tooth m , and the spring S draws down and firmly holds the toothed bar t against the rack T ; as the handle is pulled further outward, the cam C is brought to bear against the ridge

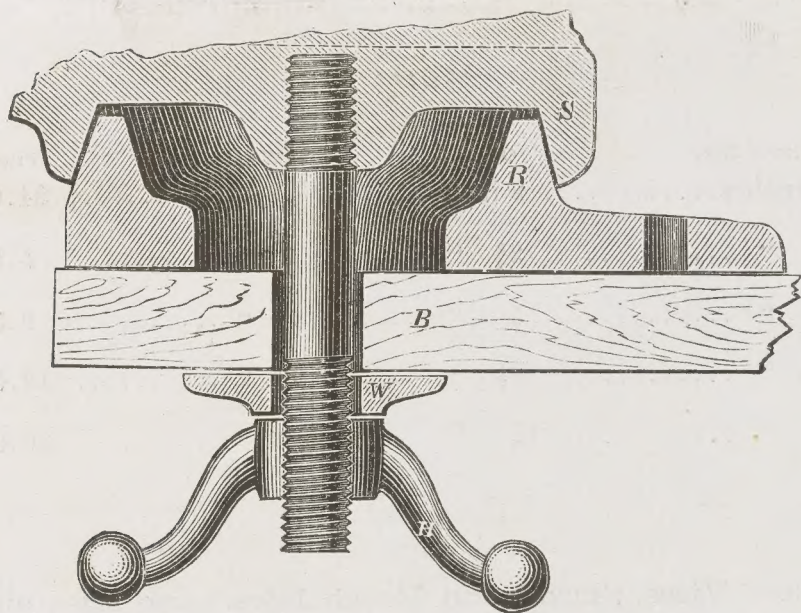
n, thus straightening the toggle and forcing the movable jaw *B B*, with great power against the article to be held—hence the following

DIRECTIONS:

Disengage the racks by pushing the handle hard back, then press the movable jaw *B B*, against the article to be held and pull the handle out.

Occasionally put a drop of oil on the Cam *C*, and tooth *M*.

III.



STEPHENS'

PATENT SWIVEL ATTACHMENT.

S is the lower part of the Vice, furnished with a conical ring, which turns upon a corresponding conical ridge upon the bed-plate *R*. A slight movement of the handle *H*, which turns upon a bolt or stud fastened to the stock *S*, serves to bind these conical surfaces together more than twice as firm as it is possible to bind the plane surfaces of the ordinary Swivel.

STEPHENS' PARALLEL VISE.

Revised Retail Price List.

Width of Jaw.	Opens.	Weight.	Price.
2 inches.....	2 inches.....	2 lbs.....	\$4.00
2 $\frac{3}{4}$ "	2 $\frac{3}{4}$ "	12 "	5.50
3 $\frac{1}{2}$ "	5 "	35 "	9.00
4 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	65 "	12.50
6 $\frac{1}{2}$ "	11 "	160 "	30.00

Filers' Vices, Smooth and Rough Jaws, same sizes and prices as above.

Swivel Vice.	Extra Charge.
2 inches	\$.75
2 $\frac{3}{4}$ "	1.00
3 $\frac{1}{2}$ "	1.50
4 $\frac{1}{2}$ "	2.00

TP

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